



SPECTAR
sheet

BARLO XT

BARLO PC

BARLO SPC

BARLO CAST

BARLO SAN

BARLO PS

PRODUCT OVERVIEW

BARLO PLASTICS offers a range of plastic sheets which give the widest choice to the industry as far as gauge, size, pattern, colour, coating and opacity are concerned.

www.barloplastics.com

HEADQUARTERS BARLO PLASTICS EUROPE N.V.

Industriezone Geel West - z2
Leukaard 1
2440 Geel - BELGIUM

Tel.: +32 (0) 14 - 57 67 11
Fax: +32 (0) 14 - 58 85 97

EASTERN EUROPEAN SALES OFFICE BARLO PLASTICS SLOVAKIA S.R.O.

M.R. Štefánika 71
010 39 Žilina
SLOVAK REPUBLIC

Your point of contact:

Tel.: +421 (0) 41 - 733 11 11
Fax: +421 (0) 41 - 764 68 79

Barlo Plastics N.V. and its marketing subsidiaries disclaim responsibility for results of use of this information, which is furnished without charge, or any product, method or apparatus mentioned herein. It is the user's responsibility to make and to be guided by his own test in determining suitability of any product, method or apparatus for this purpose. No statement or suggestion herein is to be considered a recommendation or inducement of any use, manufacture or sale that may infringe any patents now or hereafter in existence.

Specification : Barlo Plastics - Akrylon XT leaflet - English version - Vol.1 - (Copyright 2001, Barlo Plastics Europe N.V., All rights reserved - Printed in Belgium. JP 11/01)

AKRYLON[®] XT

made by barlo plastics



is a registered trademark for extruded Polymethyl methacrylate (PMMA) sheets in the form of large dimensional sheets.

The material is thermoplastic and suitable for forming, bending or direct use in the form of cut-to-size panels.

AKRYLON® XT CHARACTERISTICS

- AKRYLON® XT sheets have good optical properties, colour stability and high-quality surfaces.
- AKRYLON® XT sheets have important benefits: excellent clarity, colour and functional stability backed up with a ten years guarantee.
- AKRYLON® XT sheets are UV-stabilised and remain colour fast for years.
- AKRYLON® XT sheets can be used in contact with foodstuffs.
- AKRYLON® XT sheets also combine the following excellent properties:
 - Brilliant transparency
 - Very good weathering and ageing resistance
 - High surface stability / resistance
 - Good recyclability

AKRYLON® XT TECHNICAL INFO

General	Test Method	Unit	Value
Density	ISO 1183	g.cm ³	1,19

Optical	Test Method	Unit	Value
Light Transmission	ISO 13468-1 (thickness 3 mm)	%	93
Refractive Index	ISO 489		1.492
Haze (Akrylon XT clear)	EN 2155-9	%	0,6

Mechanical	Test Method	Unit	Value
Tensile stress at break	ISO 527	MPa	70
Tensile strain at break	ISO 527	%	5 - 7
Modulus of elasticity in tension	ISO 527	MPa	3200
Flexural Strength	ISO 178	MPa	120

Thermal	Test Method	Unit	Value
Vicat softening temperature (B 50)	ISO 306	°C	102
Temperature of deflection under load (A - 1,8 MPa)	ISO 75	°C	92
Coeff. of Linear Expansion	ASTM D676	K ⁻¹	70.10 ⁻⁶
Degradation Temperature		°C	> 280
Combustibility grade	STN 730862		C 1

Impact Strength	Test Method	Unit	Value
Hardness ball indentation	ISO 2039-1	N.mm ²	130
Charpy Unnotched	ISO 179	kJ.m ⁻²	17
Charpy Notched	ISO 179	kJ.m ⁻²	1,3

Electrical	Test Method	Unit	Value
Dielectric Constant (50 Hz)	DIN 53 483		3,3
Dielectric Strength	DIN 53 481	kV.mm ⁻¹	15
Surface Resistivity (dry)	DIN 53 482	Ω	10 ¹⁵
Sneak Current Resistivity	DIN 53 480		Satisfy for Voltage 600 V
Direct Current Resistivity	DIN 53 484	grade	L 4
Electric arc Resistivity (alternating current)	ASTM 495/73	s	240



AKRYLON® XT APPLICATIONS



Construction components

- Light domes • Partition walls • Glazing • Roofing
- Roof hoods for caravans

Lighting

- Cover for lighting • Illuminated signs

Engineering components

- Housing • Machine covers

Advertising and decoration

- Letters • Decorations • Advertising fittings
- Advertising panels • Displays

Other applications

- Containers • Lettering templates • Sign equipment
- Solariums UVT (UV-transmitted grade)

AKRYLON® XT PRODUCT RANGE

PRODUCT NAME	FEATURES	LT 3 mm	SIZE in mm	SHEETS PER PALLET								
				Thickness in mm								
				1,8	2	2,5	3	4	5	6	8	10
■ AKRYLON® XT 1900	Clear	93%	3050 x 2050	75	70	60	50	35	30	25	15	12
			2000 x 1500	150	100	100	80	70	50	40		
			2000 x 1000	150	100	100	80	70	50	40		
			1000 x 1500	150	100	100	80	70	70	60		
■ AKRYLON® XT 1900 UVT	Clear, UV-transmitting	min. 85% UV	3050 x 2050	75	70	60	50	35	30	25		
			2000 x 1000	150	100	100	80	70				
			1000 x 1500	150	100	100	80	70				
■ AKRYLON® XT 1520	Silicate green	91%	3050 x 2050	70	60	50	35	30	25			
			2000 x 1000	150	100	100	80	70				
			1000 x 1500	150	100	100	80	70				
■ AKRYLON® XT 2910	Opal	76-78%	3050 x 2050	70	60	50	35	30	25			
			2000 x 1000	150	100	100	80	70				
			1000 x 1500	150	100	100	80	70				
■ AKRYLON® XT 2930	Opal	40-45%	3050 x 2050	70	60	50	35	30	25			
			2000 x 1000	150	100	100	80	70				
			1000 x 1500	150	100	100	80	70				
■ AKRYLON® XT 2940	Opal	30-35%	3050 x 2050	70	60	50	35	30	25			
			2000 x 1000	150	100	100	80	70				
			1000 x 1500	150	100	100	80	70				
■ AKRYLON® XT*	Colour		3050 x 2050	70	60	50	35	30	25			
			2000 x 1000	150	100	100	80	70				
			1000 x 1500	150	100	100	80	70				

- **LT** = Light transmission - depends on thickness of the sheets
- Other thicknesses, dimensions or colours can be produced to order, but are subject to special conditions, such as :
- required minimum order quantities - production lead times - special price conditions

* Specification of **coloured sheets** is determined by current **AKRYLON® XT** sample chain

Please contact us for all your special requirements